

This post will introduce us to a few crucial terms related to Machine Learning. Grasping the **general idea** of these terms will ensure that you can hold a professional conversation with an expert in the field and understand the various concepts to be taught on a high level.

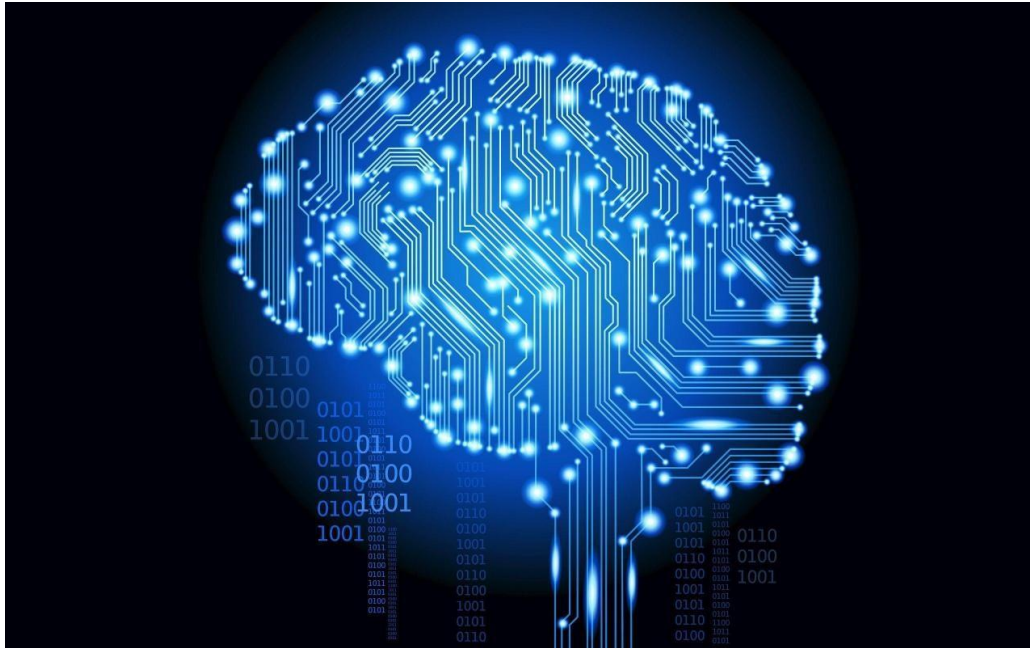


The terms will be provided in the format of ***Term: Explanation.***

This is a gentle reminder that if you are new to the field of Machine Learning, you don't not have to memorize these terms. For now, a single or double read will suffice. I say this because if you intend on learning machine learning, these terms will be ingrained in your memory as you progress in the field. Plus, I intend on posting content regularly on LinkedIn since I like disseminating knowledge.

1. **Data/Dataset:** A collection of facts that are related. Data is often presented in a tabular (table) format of rows and columns.
2. **Feature:** A single column in the Dataset.
3. **Observation:** A single row in the Dataset.
4. **Algorithm:** The selected methodology which is used to analyze a dataset. Each algorithm will require data to be passed into it, in a specific format and structure.
5. **Model:** The output of an Algorithm's training process. The machine will use the model as a reference or point of teaching when making predictions for future scenarios.
6. **Fitting:** The process during which a Machine Learning Algorithm is applied to the data.
7. **Training:** The first time/particular instance when the Algorithm is applied to the data. During training, the model gains insight into the data. The model learns how to use the data to make correct predictions.
8. **Parameters:** Also called Weights or Coefficients. As in mathematics- it is the number before a variable. E.g., $f(x) = 5x + y$ -> The coefficients are 5 and 1.

9. **Hyper- parameters:** These are the settings of the Algorithm. Just like how a function accepts arguments via its parameters, a learning Algorithm will accept arguments for its Hyperparameters. The values specified will affect the way the model is created.
10. **Performance:** The term used to describe the evaluation of a model's accuracy.



And with that, we have successfully gained insight into the ten (10) important terminologies used in **Machine Learning**.

I do hope you found this post interesting and have new takeaways about the field of Machine Learning.